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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,201	07/23/2003	Shi-Feng Shao	USP2181C-DRSH	2701

30265 7590 01/22/2007
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EXAMINER

WRIGHT, INGRID D

ART UNIT	PAPER NUMBER
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2835

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/22/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/627,201

Applicant(s)

SHAO, SHI-FENG

Examiner

Ingrid Wright

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 November 2006.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 14-17 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 14-17 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 6/21/06 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. The Declaration under 37 CFR 1.132, filed 11/1/06 is insufficient to overcome the rejection of claims 1-14 based upon reasons as set forth in the last Office action because: the Applicant, although has provided the above affidavit, the Applicant has failed to clearly state the correlation between the limitations of the claimed invention of the instant application and the specific reasons for the commercial success of the embodiment. The Office acknowledges receipt of the Affidavit, filed 11/1/06.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horng et al. US 6550529 B1 in view of Lee US 6619381 B1.

Re claim 14, Horng et al. teaches a heat dissipating arrangement for a portable computer (col. 1, lines 5-12), comprising at least two heat dissipating members (1) adapted for installing into said portable computer for dissipating heat therefrom, wherein each of said heat dissipating members (1) comprises: a plate body (plate body of (1)) defining a heat dissipating surface and a peripheral edge (edge of (1)); at least a heat guiding channel (11) (note: additional channel (2)) having a circular shape (12) integrally protruded from said heat dissipating surface of said plate body (plate body of (1) and defining a circular edge (edge of 12); that said circular edge of said heat guiding channel (11) of said heat dissipating

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member (1) is contacted with said heat dissipating surface of said adjacent heat dissipating member (1) such that said heat guiding channels (11) are coaxially aligned with each other to form an elongated heat conducting conduit, wherein said heat dissipating members (1) are communicatively mounted side by side while said heat dissipating surfaces of said heat dissipating members (1) are spaced apart between said heat guiding channel (11) for dissipating said heat from said portable computer, but is silent as to a folding arm and an engaging arm. Lee teaches at least a folding arm (arm near (11,12)) integrally and bendably extended from said peripheral edge (top edge of (10)) of said plate body (10), wherein said folding arm is bent to transversely extended from said heat dissipating surface to overlap (illustrated near y-shaped arms) with said folding arm of another said adjacent plate body so as to enhance a contacting area between said heat dissipating members (member of (10)); and at least an engaging arm (13,14) integrally and bendably extended from said peripheral edge (edge near (11,12)) of said plate body (10) at a position adjacent to said folding arm, wherein each of said engaging arms (13,14), having a Y-shape, is integrally extended from said peripheral edge of said plate body (10) in a bendable manner, wherein when said engaging arm (13,14) has a narrowed root (lower portion of (13,14)) portion bendably and outwardly extended from said peripheral edge (top edge of (10)) of said plate body (10) and an engaging head portion (shown at 13,14) of each of said engaging arms (13,14) forms two engaging wings (2 wings illustrated on 13,14) adapted to engage with said root portion (lower portion of (13,14)) of another said engaging arm (13,14), wherein said root portion (lower portion of (13,14)) of said engaging arm (13,14) of each of said heat dissipating members (member of (10)) is bent (specifically a 90 degree bend illustrated) to transversely extended from said heat dissipating surface that said engaging head portion (shown at (13,14)) of said engaging arm (13,14) of said heat dissipating member (member of (10)) is substantially engaged with said root portion (lower portion of (13,14)) of said engaging arm (13,14) of another said heat dissipating member (member of (10)) to spacedly lock up (note: (13,14) of fin (10) are inserted into apertures (111',121') of an adjacent fin 10' as illustrated in fig. 3, apertures shown in fig. 2 of Lee) said heat

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dissipating member (member of (10)) at position. Therefore, to modify Horng et al., by employing a folding and an engaging arm would have been obvious to one having ordinary skill in the art at the time the invention was made, since Horng et al. teaches a heat sink device having these design characteristics. The skilled artisan would be motivated to combine the folding arms and engaging arms of Lee, in the invention of Horng et al., since Horng et al. also teaches a heat dissipating arrangement, whereby plate bodies are designed to be stable and compact and Lee is only used to provide the added limitation of a folding arm and an engaging arm.

Re claim 15, Horng et al. as modified by Lee, teaches wherein said two engaging wings (13,14) symmetrically identical, wherein said root portion (lower portion of (13,14)) of each of said engaging arms is bent 90 degrees with respect to said plate body ((10) to engage said engaging wings (wings of (13,14)) of said engaging arm (13,14) with said root portion (lower portion of (13,14)) of another corresponding said engaging arm (13,14) at said peripheral edge (edges near (11,12)) of said plate body (10).

Re claim 16, Horng et al. as modified by Lee, teaches where each of said folding arms (arms near (11,12)) is downwardly bent 90 degrees to transversely extend from said heat dissipating surface (surface of (10)) of said plate body (10) to overlap with said folding arm (arm near (11,12)) of another said heat dissipating member (member of (10)).

Re claim 17, Horng et al. as modified by Lee, teaches wherein each of said folding arms (arm near (11,12)) is downwardly bent 90 degrees to transversely extend from said heat dissipating surface (surface of (10)) of said plate body (10) to overlap with said folding arm (arm near (11,12)) of another said heat dissipating member (member of 10).

Response to Arguments

3. Applicant's arguments, filed 11/1/06, regarding Amended claim 14 & claims 15-17, have been fully considered, but are moot in view of the new grounds of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ingrid Wright whose telephone number is (571)272-8392. The examiner can normally be reached on M-F. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)272-2800, ext 34. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions

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on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

IDW

Lisa Lea Edmonds
LISA LEA-EDMONDS
PRIMARY EXAMINER